



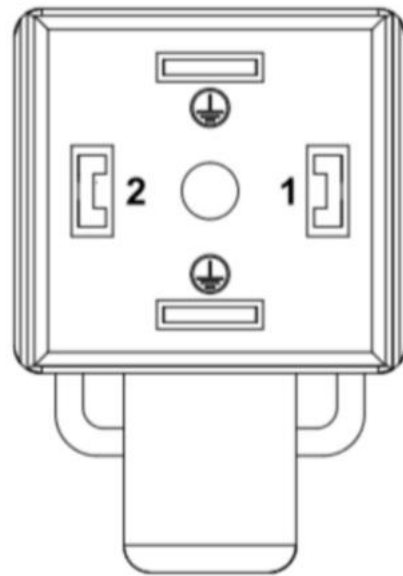
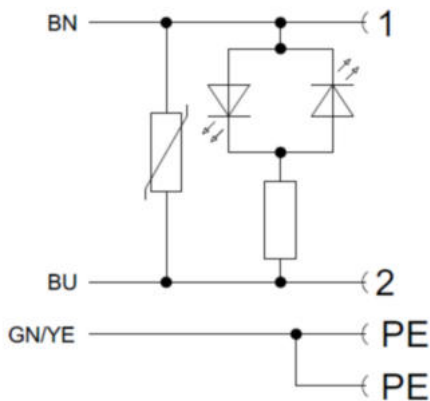
Product: [VAD 1A-1-3-241](#) 

VAD - Molded Female Cordset, Form A, Contacts: 2+2PE, with Varistor (MOV) and YE LED, 24 V | 4 A, IP67; PUR Orange, 3x0.50mm² (20AWG)

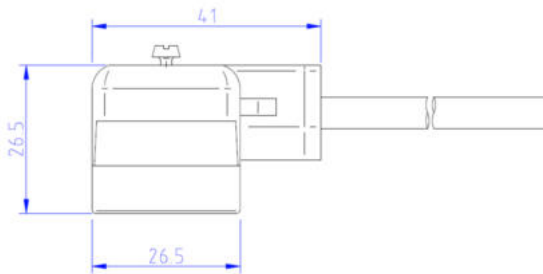
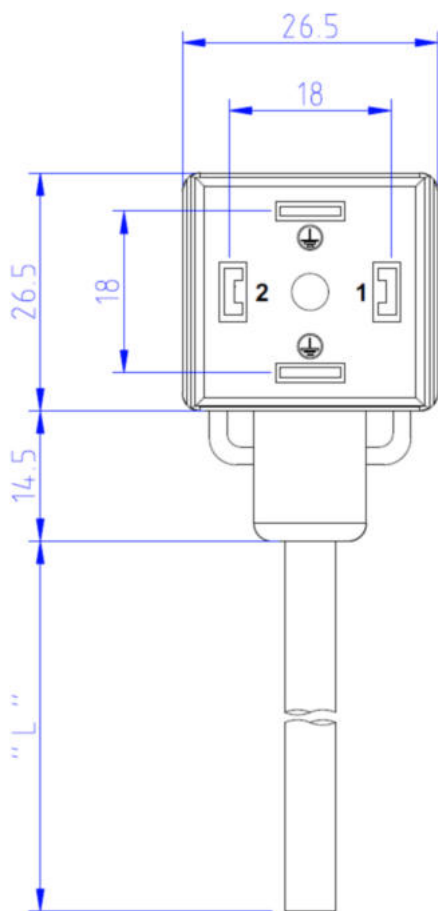
Product Description

175301-803-A (DIN 43650-A): Single-Ended Female Cordset, Contacts: 2+2PE, with Varistor (MOV) and Yellow LED, 24 V | 4 A, IP67; Cable: PUR Orange, IEC, 3x0.50mm² (20AWG)

Technical Drawing



1 = BN
2 = BU
PE = GN/YE



Technical Specifications

Product Life Cycle

Availability:	Not recommended for new designs
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Technical Data

Product Family:	Valve Connectors
Product Sub Family:	VAD
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Angled
Number of Pins:	2+2PE
Coding:	A
Shielding:	Unshielded
Attachment Type:	Central Screw
Rated Voltage:	24 V
Rated Impulse Voltage:	4.0 kV
Operating Voltage:	24 V AC/DC
Rated Current*:	4 A
Contact Resistance:	≤ 5 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	max. 50
Ambient Temperature (Operation)*:	-25°C to +80°C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	DIN EN 175301-803-A
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuZn
Contact Plating:	Cu/Ni,Sn
Contact Bearer Material:	PBT
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Transluscent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Steel, Philips combi slot
Gasket Material:	Molded Integrated Gasket

Protection Circuitry

Function Indicator:	Yellow LED
Protective Circuit:	Varistor (MOV)

Additional Technical Data

Fastening Torque (Attachment):	(50-60) Ncm
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Cable Data

Cable Number:	241
Conductor Size:	0.5 mm²
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 2 M
Welding Resistance:	Welding spark resistant
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	orange
Cable Diameter D:	ø 5.0 ± 0.2 mm
Wire Insulation Material:	HDPE
Insulated Wire Diameter:	ø 1.50 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2
Cable Characteristics:	Mainly plasticizer diffusion free; Good microbes and hydrolysis resistance; Exclusion of PVC and silicone; Seatwater resistance; Coldness flexibility

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	no
Oil Resistance:	VDE 0472-803

Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	*IP Rating test performed by Belden with Belden Connectors only

Variants

Item #	Item Description	Cable Length	Replaced By
12140	VAD 1A-1-3-241/5 M	5 m	Name: GAN22LU-V24-2410500-1UC
38771	VAD 1A-1-3-241/10 M	10 m	Name: GAN22LU-V24-2411000-1UB
109705	VAD 1A-1-3-241/1,5 M	1.5 m	Name: GAN22LU-V24-2410150-1UD

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